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Giles, Jr., H. F., Wagner, Jr., J. R., Mount III, E. M., <u>Extrusion: The Definitive Processing Guide and Handbook</u>, PDL HANDBOOK SERIES, Williams Andrew, Inc., Norwich, New York, (2005)

Several Patent Applications Pending.

#### EXHIBIT 2

#### **DOCUMENTS REVIEWED**

I have reviewed all of the documents disclosed in this report. Set forth below is a list intended to capture those materials in list form.

- Us Patent 4,755,419, "Oxygen Barrier Oriented Shrink Film", Gautam P. Shah; Assignee W. R. Grace & Co., Cryovac Div, July 5, 1988
- 2. European Patent Application 0 063 006 A1, "EVOH copolymer blend, a process for producing a composite film therfrom and the composite film per se.", Oderzynski, T. W., Knott, J. E., Applicant American Can Company, 20/10/1982
- 3. US Patent 4,746,562, "Packaging Film", Ennis M. Fant, Assignee W. R. Grace & Co., Cryovac Div, May 24, 1988
- 4. US Patent 4,361,628, "Coextruded Film of Polypropylene Blend And Nylon", Duane A. Krueger, Thomas W. Odorzynski, Assignee American Can Company, Nov 30, 1982
- 5. US Patent 4,608,286, "Gas Barrier Multilayer packaging Maretial Having Excellent Flexing Endurance", Yasuo Motoishi, Kenji Satoh, Kyoichiro Ikari, Assignee Kuraray Co. Ltd., Aug 26, 1986
- 6. US Patent 5,055,355, "Oriented Film Laminates Of Polyamides and Ethylene Vinyl Alcohol Copolymers", Ferdinand A. DeAntonis, William H. Murrel, Alfieri Degrassi, Assignee Allied-Signal Inc., Oct 8 1991
- 7. US Patent 4,511,610, "Multi-Layer Drawn plastic Vessel", Jinichi yazaki, Kozaburo Sakano, assignee Toyo Seikan Kaisha Ltd., Apr 16, 1985
- 8. US Patent 4,284,674, "Thermal Insulation", Nicholas Sheptek, Assignee American Can Company, Aug 18, 1981
- 9. A. L. Blackwell, "Ethylene Vinyl Alcohol Resins As A Barrier Material In Multi-Layer Packages", J. Plastic Film & Sheeting, Vol. 1, (1985), pp 205-214
- 10. Rolf Hessenbruch, "recent Development In Blown Film Coextrusion", Tappi Proceedings, Book 1, 1984 Polymers, Laminations and Coatings Conférence, Sept 24-26 (1984), pp 85-94
- 11. US Patent 4,532,189, "Linear Polyethylene Shrink Film", Walter B. Mueller, Assignee W. R. Grace, Jul 30, 1985
- 12. US Patent 4,398,635, "Child-Proof Medication Package", Edmund Hirt, assignee American Can Company, Aug 16, 1983
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- 14. US Patent 4,572,854, "Multilayer Film With A Gas and Aroma Barrier Layer and A Process" For The Preparation and Application Thereof', H. Dallmann, H. J. Palmer, assigneeH Hoechst Aktiengesellschaft, Feb 25, 1986
- 15. Translation of: Utillity Model Application Publication Number: 60-27000, application number 54-84842, Mamoru Yoshimoto, Kyutaro Taleuchi, applicant Sumitomo Bakelite Co., Ltd., publication data August 14, 1985
- 16. IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE, CRYOVAC, INC., Plaintiff/Counter-Defendant. vs. PECHINEY PLASTICC PACKAGING, INC., Defendant/Counter-Plaintiff., Civil Action No. 04-1278, Hon. Kent A. Jordan, "PECHINEY PALSTIC PACKAGING INC.'S RESPONSE TO CRYOVAC'S FIRST SET OF INTERROGATORIES (NOS. 1-8) TO PECHINEY
- 17. US Patent 4,436,778, "Multilayer Tubular Body With Uncentered Barrier Layer", J. N. Dugal, assignee Ball Corporation, Mar 13, 1984
- 18. US Patent 4,501,798, "unbalanced Oriented Multiply Layer Film", M. Koschak, S. S. Super. J. F. Jesse, assignee American can Company, Feb 26, 1985
- 19. US Patent 4,355,721, "Package For Food Products", J. E. Knott, M. S. Koschak, J. P. Adams, assignee American Can Company, Oct 26, 1982
- 20. US Patent 4,532,189, "Linear Polyethylene Shrink Films", W. B. Mueller, Assignee W. R. Grace & Company., Cryovac Div., Jul 30, 1985
- 21. J. A. Sneller, "New Prospects in Packaging Markets" Modern Plastics, August 1984, pp 39-41
- 22. anon, "Nylon Film Effective Packaging", Plastics Corner, The Journal of Commerce, Dec 14, 1984
- 23. Development Specifications from American National Can; DB-3200-1, DB-3200-2, DB-3200-3, DB-3201-1, DB=3201-2, DB-3201-3, DB-3201-4, DB-3300-1, DB-3300-2, DB-3300-3, DB-3300-4, DB-3301-1, DB-3301-2, DB-3350-1, DB-3350-2, DB-3350-3, DB-3350-4, DB-3351-1, DB-3351-2, DZ-9000-1, DZ-9001-1, DZ-9001-2, DZ-9002-1, DZ-9002-2, DZ-9500-1, DZ-9500-2, DZ-9501-1, DZ-9501-2, DZ-9502-1, DZ-9502-2, DM-0200-1, DM-0201-1, DM-0250-1, DM-0251-1, B-3201-A, B-3300-A
- 24. US Patent 4,640,852, "Multiple Layer Films Containing Oriented layers Of Nylon And Ethylene Vinyl Alcohol Copolymer", W. F. Ossian, assignee American Can Company, Feb 3, 1987
- 25. Earl Hatley, "Performance of Nylon, Technical Papers Society of Plastics Engineers Regional Technical Conference "Optimize Barrier Coextrusion", Sept 5-6, 1985
- 26. W.R.R. Park, Plastics Film Technology, Plastics Applications Series, W.R.R. Park Editor, Van Nostrand Reinhold Company, New York (1969)

- 27. The Science and Ttechnology of Polymer Films, Vol. I, O. J. Sweeting, ed, Interscience Publishers, New York, (1968)
- 28. C. J. Benning, Plastic Films For Packaging; Technology, Applications and Process Economics, Technomic Publishing Co., Inc, Lancaster, PA., (1983)
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- 30. Pechiney's Second Supplemental Response to Cryovac's First Set of Interrogatories
- 31. U.S. Patent No. 4,058,647

Case 1:04-cv-01278-KAJ Document 227-17 Filed 10/26/2005 Page 5 of 27

## EXHIBIT 23

### **EXHIBIT 23 REDACTED IN ITS ENTIRETY**

# EXHIBIT 24

### WEBSTER'S NEW TWENTIETH CENTURY DICTIONARY

#### Second Edition

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ir'mor plate, plates of iron or steel for covering the sides of a ship, tank, etc.

ir'mor-plat'ed, a. covered with armor plate.

ir'nold-ist, n. a disciple of Arnold of Brescia, who, in the twelfth century, was executed for insurrection against Roman Catholic corruption.

ir-raign' (-ran'), v.i.; arraigned (-rand), pt., randign' (-rand), randign' (-rand),

war are kept; arsenal.
2. armor. [Archaic.]
3. armorial bearings. Archaic.]

4. the art of heraldry.
5. a place where firearms are manufac-

6. a building containing the drill hall and offices of a unit of the National Guard.

\*\*Indoor, n. and v.s. armor: the British spell-

ir mour er, n. armorer: the British spelling. ar mour er, n. armorer the British spelling. ir moury, n. armory; the British spelling. ir mozeen', is r mozine', n. [Fr. armoisin; OFr. armesin; L. ermesinus, taffeta.] a heavy silk, generally black, formerly used in making

silk, generally black, formerly used in making robes for the clergy.

\*\*Erm'pit, n, the hollow place or cavity under the arm at the shoulder; the arilla.

\*\*Erms, n, l, [ME. arms, Fr. arms, pl. arms, from L. arma, arms, equipment.]

from L. arma, arms, equipment.]

1. weapons.

2. military science; warfare; fighting; as, a comrade in arms; an assault at arms.

3. in heraldry, armorial bearings of a family, consisting of figures and colors borne in shields; banners, etc., as marks of dignity and distinction, and descending from father

to son.
4. insignia of countries, corporations, etc. mall orms; firearms of small caliber that can be carried, as rifles, carbines, pistols, etc. to arms; get ready to fight!: a summoning to war or battle.

to lake up arms; to arm for attack or de-lense; to enter a dispute.

under arms; having arms ready for use;

ready for war.

up in arms; prepared to fight; hence, indignant.

dignant.

It'mure, n. 1. armor. [Obs.]

2. a kind of ribbed woolen cloth woven so that it looks like chain mail.

It'my, n. [ME. armye, armeye; OFr. armee; It. armata; L. armata, f. of armatus, pp. of armatus, to arm; arma, arms.]

1. a large organized body of men armed for war, especially on land: often it includes an air force.

air force

2. a military unit, usually two or more army corps, together with auxiliary troops; field army

the military forces of a nation as distinguished from its navy; the land forces.

guished from its navy; the land forces.

4. a great number; a vast multitude.

5. a body of persons organized for some particular cause; as, the Salvation Army.

army of occupation; an army sent into a defeated country to ensure compliance with the terms of the peace treaty; the army of occu-pation exercises military rule of the territory.

standing army; an army maintained in peacetime, as well as in time of war, on a permanent organizational basis.

Ar'my Air For'ces, formerly, the aviation branch of the United States Army.

hranch of the United States Anny.

Ar'my ant, a foraging ant that travels in large groups, as the driver ant.

Ar'my corps (kor), a tactical military unit of two or more divisions with auxiliary services, usually commanded by a lieutenant general. ar'my list, an official register of the commis-

Sioned officers of an army.

Ar'my of the U-nīt'ed Stātes, the United States Army, the Organized Reserves, the National Guard, and Selective Service personnel, collectively: organized temporarily during time of war or other national emergency.

r'my worm, the larva of a moth Leucania unipuncia: so called because vast numbers move like an army, destroying all vegetation in their path; also, any related species with imilar habits

ar'na, n. [Hind. arnā.] one of the numerous varieties of wild buffalo, Bos babulus, of India. ar'nee, n. same as arna.

Plarmica: Gr. Ar'ni ca, n. [prob. from plarmikos, causing to sneeze.]

plarmikos, causing to sneeze.]

1. a genus of plants of the order Compositz.

2. [a-] any plant of this genus, especially the perennial Arnica montana, or mountain arnica, bearing bright yellow flowers on long stalks with clusters of leaves at the base.

3. [a-] tincture of arnica, applied externally as a treatment for sprains, bruises, and ailments of a similar kind.

ar-norto, n. same as caribau.

ar-nut, n. same as caribau.

ar-ō-gi/rā (-ā/rā), n. [native Braz. name.]

any one of several South American trees

from which a medicinal resin is extracted.

ar/old, a. resembling or belonging to the Arum family.

ar'old, n. [L. arum; Gr. aron, wake robin, and eidos, shape, form.] any plant of the Arum

cidos, shape, form.] any plant of the Arum family.

Arol'de ae, n.pl. [L., from Gr. aron, the wake robin, and cidos, form.] same as Aracez: arold'e-ous, a. araceous.

arolnt', aroynt', s.i. [prob. coined by Shakespeare (Macbeth I, iii, 6).] begone; avaunt (usually with thee): used in the imperative. [Obs.]

arol'la, n. [Fr. arolle.] a tree of the pine family, Pinus Cembra, found in Switzerland.

aroma; Gr. aroma, a sweet spice, a sweet smell.]

1. the fragrance of plants, or other substances; a pleasant, often spicy odor.

2. a characteristic quality or atmosphere; as, the aroma of culture.

Syn.—fragrance, perfume, savor.

arō-mat'lc, arō-mat'lc, al, a. 1. fragrant; spicy; strong-scented; odoriferous; having an agreeable codor.

agreeable odor.

2. in chemistry, of or designating any of a series of benzene ring compounds, many of which have an odor or are derived from materials having an odor.

materiais naving an oddi-ar. 5-mat'ic, n. a plant or chemical charac-terized by a fragrant smell, and usually by a warm, pungent taste, as ginger. ar. 5-mat.l.za'tion, n. the act of making

aromatic

aromatic.

½·rō'mà·tīze, v.t.; aromatized, pt., pp.; aromatizing, ppr. to make aromatic; to infuse with an aromatic odor; to give a spicy scent or taste; to perfume. a.ro'ma.ti.zer, n. that which, or one who,

aromatizes.

á ro/ma tous, a. aromatic. [Obs.]

a.rō/ma.tous, a. aromatic. [Obs.]
a.rōe/, past tense of arise.
a.round', prep. 1. about; on all sides of; encircling; encompassing; in various places in or on; revolving about (a center or axis).
2. somewhat close to; about; as, around five pounds. [Colloq.]
a.round', adv. 1. in a circle; on every side; in circumference; in or to the opposite direction; in various places.

circumference; in or to the opposite direction; in various places.

2. to a (specified or understood) place; as, come around to see us.

3. in the vicinity; about; near by; as, he visited around. [Colloq.]

to have been around; to have had wide experience; to be sophisticated. [Colloq.]

around 1, n. the act of arousing.

rouse'ai, n. the act of arousing.
rouse', n.t.; aroused, pl., pp.; arousing, ppr.
[a- and ME. rowsen, rouzen.]
1. to wake up; to awaken.
2. to excite into action; to stir up or put in motion; as, to arouse the dormant faculties.
Syn.—stimulate, provoke, animate, awaken,

excite. a rouse', v.i. to become aroused.

a rouse', v.i. to become aroused.
a row', adv. in a row; successively.
ar peg'giō (-pej'ō), n.; pl. är peg'giōs, [It.
ar peggiare, to play on a harp.]
1. in music, the sounding of the notes of a
chord in rapid succession, as in harp playing,
instead of simultaneously.
2. a chord so played.
ar/pent, n. [Fr. arpent; LL. arapennes; L.
arepennis; a word of Celtic origin.] an old
measure of land in France, equal to about an
acre: retained in Louisiana, and Quebec,
Canada.

acre: retained in Louisiana, and Quebec, Canada.

är pen tä'tör, n. a land surveyor. [Rare.]

är'pine, n. arpent. [Obs.]

är'quā ted, a. [L. arcuare, to bend like a bow. from arcus, bow.] arcuate; curved. [Rare.]

är'quē-bus. āde', n. same as harquebus.

är'quē-bus-lēr', n. same as harquebusade.

är'quē-bus-lēr', n. same as harquebusier.

är'quē-bus-lēr', n. same as harquebusier.

är'quē-bus-lēr', n. same as alquifou.

är-rā-cā'chā, n. [Sp.] a Mexican plant, belonging to the genus Arracacia.

Är-rā-cā'chā (-shi-ā), n. [Sp., from a native name.] a genus of umbelliferous plants of the carrot family, growing in Mexico and South America.

America. ar'rach, n. same as orach.

2. to accuse; to charge with faults; to call to account or in question.

They will not arraign you for want of knowledge.

Dryden. Syn.—accuse, attack, censure, impeach, inculpate.

ar raign', v.t. in English law, to appeal to; to demand. [Obs.] ar raign', n. arraignment; as, clerk of the ar-

raigns. ar raign/er, n. one who arraigns. ar raign/ment, n. [Norm. arresnement, arraynement.]

1. the act of arraigning; the act of calling a person before a court to answer to a complaint or indictment and to plead guilty or not guilty.

2. a calling in question for faults; accusa-

tion ar.rāi/ment, n. raiment. [Obs.]
ar.rāi/ment, n. raiment. [Obs.]
ar.rānge/, v.i.; arranged (-rānjd), pi., pp.; arranging, ppr. [ME. arayngen, arengen; Ofr. arangier; Fr. arranger, from ad and ranger, to

set in order.]
1. to put in proper order; to sort systemat-

1. to put in proper order, to sort systematically; to classify.
2. to adjust; to settle; to put in order; to prepare; as, to arrange details.
3. to adapt (a musical composition) to other instruments or voices than those for which it was written, or to a certain band or orchestra.

Syn.-class, dispose, place, range, group, adjust:
ar-range', v.i. 1. to come to an agreement
(with a person, about a thing).
2. to make plans; provide or prepare (with
for or an infinitive).

3. in music, to write adaptations, especially as a profession.

as a profession.

ar.range/ment, n. 1. the act of putting in proper order; also, the state of being put in order.

2. that which is arranged or the result of

arranging.

3. [usually pl.] a preparatory measure or plan; as, we have made arrangements for receiving company.

4. a settlement or adjustment by agreement; as, the parties have made an arrangement between themselves concerning their

disputes. a combination of parts; hence, loosely, a

contrivance or apparatus.
6. the adaptation of a musical composition to other instruments or voices than those for which it was originally written, or to the style

of a certain band or orchestra; also, a composition so adapted. syn.—classification, adjustment, agreement, disposition, grouping, disposal, order.

ar rān'gēr, n. one who or that which arranges.
ar'rān't, a. [a variant of errant.]
1. notorious; infamous; vile; as, an arrant

rogue or coward.
2. wandering. [Obs.]

Syn.—consummate, notorious, flagrant, vile, adv, notoriously; infamously;

ar'rant ly snametuny.

ar'răs, n. [so called from Arras, from L. Atrebates, a people of Belgic Gaul.] a tapestry; a wall hanging of tapestry.

ar'răs, n. [Sp.] in Spanish law, a marriage settlement. shamefully.

ar'ras, v.t. to hang or furnish with an arras.

arras, v.t. to nang or turnish with an arras.
arras.ene', n. a silk or woolen material used
for embroidery.
arras'tra, n. same as arrastra.
arras'tre, n. [Sp. arrastrar, to drag along the
ground; L. ad, to, and radere, to scrape.] in
gold mining a crude machine formerly used
for ore crushing.
arras.wise, ddv. same as arriswise.

ar ray, n. [ME. arayen; OFr. areyer, arraier; L. ad, to, and res, thing.]

1. regular order or arrangement; specifically, disposition of troops; as, in battle array.

2. an impressive collection or assemblage; especially, a body of men in order; hence, military force; troops in order.

A gallant array of nobles and cavaliers.

-Prescott.

dy'na tron, n. 1. a four-electrode vacuum tube in which the plate and grid potentials are such that the secondary discharge of electrons from the plate causes a decrease in the trons from the plate causes a trube in which the plate and grid potentials are such that the secondary discharge of electrons from the plate causes a decrease in the plate current simultaneously with an increase in the plate potential: it is often used as an accillate more than the plate potential: oscillator.

2. a mesotron. dyne, n. [abbrev. of dynam, from Gr. dynamis, power.] the unit of force which in one second can alter the velocity by one centimeter per second of a mass of one gram: the unit of force in the C.G.S. (metric) system.

dy"ō.cae"trī-à-con"ta-hē'drön, n. [Gr. dyo kai triakonia, thirty-two, and hedron, a seat, base.] in geometry, a solid with thirty-two

dy oth'el-ism, n. [Gr. dyo, two, and thelein, to will.] the doctrine that the will of Christ was twofold, human and divine.

dy oth'e-lite, n. an advocate of dyothelism.

dys-, [from Gr. dys-, hard, ill, bad.] a prefix
meaning hard, ill, bad, difficult, as in dysgene-

sis, dysnomy. dys aes the si a, n. same as dysesthesia. dys-är'thri-a, n. [dys-, and Gr. arthron, a joint.] defective articulation in speaking, resulting from a disease of the central nervous system. dys är thro'sis, n. [dys-, and Gr. arthron, a joint.] disability or disease of a joint.

dys"chro-ma-top'si-a, n. color blindness; dif-

dys. Gnro. ma. top'si.a, n. color blindness; dirficulty in distinguishing colors.

dys. Gra'si.a (-zhi.a), n. [Gr. dyskrasia, bad temperament; dys., bad, and krasis, a mixture, from kerannynai, to mix.] a diseased condition of the body, marked by general ill health and debility: also written dyscrasy.

dys. Gra'sig, a. characterized by dyscrasia.

dys'crā-sīte, n. [dys-, and Gr. krasis, a mix-

dys'crā-sīte, n. [dys-, and Gr. krasis, a mixture.] a lustrous, grayish mineral made up of antimony and silver.

dys-crā'sy, n. dyscrasia.
dys-en-ter'ic, dys-en-ter'ic-ăl, a. 1. pertaining to dysentery.

2. afflicted with dysentery.
dys'en-ter"y, n. [L. dysenteria; Gr. dysenteria, dysentery; dys-, bad, and enteron, pl. entera, the bowels.] any of various intestinal diseases characterized by inflammation, abdominal pain, toxemia, and diarrhea with bloody, mucous feces. mucous feces

dys-es-the'si-a, n. impairment of any of the

dys-func'tion, n. [from dys-, and function.] in medicine, abnormal, impaired, or incomplete functioning of an organ or part.

functioning of an organ or part.

dys-ge-nes'ic, a. affected by dysgenesis; relating or pertaining to dysgenesis.

dys-gen'e-sis, n. [dys-, and Gr. genesis, birth.]

lack of fertility; especially, a condition of only partial fertility, as in hybrids which do not breed among themselves, but may with the parent stock. The mule is an example.

dys-gen'ic, a. [dys-, and Gr. genos, race, family.] in biology, causing deterioration of hereditary qualities: opposed to eugenic.

individuals.

dys.i-drō'sis, n. state of abnormal secretion of sweat; also, a condition in which vesicles form on the palms of the hands and soles of the

dys-la'li-à, n. difficulty in articulation of speech sounds.

dys-lex'i-à, n. [dys-, and Gr. lexis, speech.] loss of power to grasp the meaning of that which

dys-lo'gi-a, n. difficulty in speech caused by impairment in the faculty of reasoning.

dys-10-gis'tic, a. [dys-, and Gr. logos, discourse.] not flattering; disparaging: opposed to eulogistic.

dys'lu-īte, n. [dys-, and Gr. lyein, to loose, dissolve.] a variety of gahnite, or zinc spinel, containing iron and manganese.

dys"men or rhē'a (-rē'a), n. [dys-, and Gr. mēn, a month, and rhoia, a flowing.] difficult menstruation, often accompanied by pain.

dys'me-rō-gen'e-sis, n. [dys-, and Gr. meros, part, and genesis, birth.] in biology, generation marked by irregularity of constituent parts, differing in function, time of budding, etc.: opposed to eumerogenesis.

dys'mēr-ō-morph, n. [dys-, and Gr. meros, part, and morph?, shape.] in biology, a form resulting from dysmerogenesis.

dys'nō·my, n. [Gr. dysnomia, lawlessness, a bad constitution; dys-, bad, and nomos, law.] bad legislation; the enactment of bad laws. [Rare.]

dys'ō-dile, n. [Gr. dysōdēs, ill-smelling; dys-, bad, and ozein, to smell.] a hydrocarbon of a greenish or yellowish-gray color, in masses composed of thin layers.

dys'ō-dont, n. [dys-, and Gr. odous, odontos, a tooth.] in conchology, monomyarian. dys-ō'pi-a, dys-op'sy, n. [dys-, and Gr. opsis, view, sight.] dimness of sight.

view, signt. dimness of signt.

dya-ō-rex'l-à, n. [Gr. dysorexia, feebleness of appetite; dys-, bad, and orexis, appetite.] a lack of appetite.

dys'pa-thy, n. [Gr. dyspatheia, from dyspathēs, impatient of suffering, impassive; dys-, ill, and pathos, feeling.] lack of sympathy or passion

sion. dys.pep'si.a, n. [L. dyspepsia; Gr. dyspepsia, indigestion, from dyspepios; dys., bad, and pepios, from pepiein, to soften, cook, digest.] indigestion; impaired digestion.

dys-pep'sy, n. dyspepsia. [Now Dial. or Colloq.] dys-pep'tic, n. a person afflicted with dyspep-

sia.
dys.pep'tic, a. 1. afflicted with indigestion;
as, a dyspeptic person.
2. pertaining to or having the characteristics of dyspepsia; as, a dyspeptic complaint.
3. taking a morbid view of things; gloomy;
grouchy; as, a dyspeptic writer.

dys pep'ti-cal-ly, adv. 1. in the manner of a

2. with dyspepsia.

dys-phā'gi-ā, dys-phā'gy, n. [dys-, and Gr phagein, to eat.] in medicine, difficulty in swallowing. dys-phā'si-a, n. [dys-, and Gr. phasis, speech] impairment of the ability to speak or, sometimes, to understand language, as the result

of brain injury. of a malformation or disease of the organs of

speech

dys-phō'ri-a, n. [Gr. dysphoria; dys-, hard, and pherein, to bear.] in psychology, a generalized feeling of ill-being; especiall. an abnormal feeling of anxiety, discontent physical discomfort, etc.

dysp·nē'a, dysp·noe'a, n. [L., from Gr. dysp noia; dys., hard, and pnein, to breathe.] diffi-cult or painful breathing.

dysp-nē'āl, dysp-noe'āl, a. of dyspnea. dysp-nē'iç, dysp-noe'iç, a. having or caused by dyspnea.

dyspnea. dyspneic. dyspnoic. dysprositos, difficult of access; dys-, hard, and prositos, approachable.] a chemical element of the rare-earth group: symbol. Dy; atomic weight, 162.50; atomic number, 66: it is one of the most magnetic of all known substances.

dys"te-lē-ol'ō-gy, n. [coined by Haeckel, from dys-, and Gr. telos, end, purpose, and -logia, from legein, to speak.] that branch of physiology which treats of the apparent purposelessness observable in living organisms in connection with rudimentary organs.

dys-thym'ic, a. [Gr. dysthymikos, from dysdys-thymia, despondency, despair; dys-, bad, and thymos, spirit, courage.] afflicted with chronic melancholy; depressed in spirits.

dys-tō'ci-à (-shi-à), n. [Gr. dystokia; dys-, hard, and -tokia, from tiklein, to bear.] painful child-bi-h. difficult and tracticity.

birth; difficult parturition.

dys to pi a, n. [dys-, and utopia.] a hypothetical place, state, or situation in which condi-

tions and the quality of life are dreadful.

dys'trō-phy, n. [dys-, and Gr. trophē, from trephein, to nourish.] abnormal or defective nourishment; unnatural nutrition.

muscular dystrophy; a chronic, noncontagious disease characterized by a progressive wasting of the muscles.

dys ū'rī a, dys'ū ry, n. [dys-, and Gr. ouron, urine.] difficulty or pain in discharging the urine

dys-ū'ric, a. relating to or suffering with dysdzē'ren, dzē'ron, n. [Mongolian name.] the

Chinese antelope, a swift animal, Procapra gulturosa, inhabiting the dry, arid deserts of central Asia, Tibet, China, and southern Siberia.

E, e (ē), n.; pl. E's, e's, Es, es (ēz), 1. the fifth letter of the English alphabet: from the Greek epsilon, a borrowing from the Phoenician.

2. a sound of E or e.

3. a type or impression for E or e.
4. a symbol for the fifth in a sequence or group.

E, e (ē), a. 1. of E or e.

2. fifth in a sequence or group.

fifth in a sequence or group.
 n. 1. an object shaped like E.
 a Roman numeral for 250; with a superior bar (E), 250,000.
 in chemistry, the symbol for erbium.
 in education. (a) a grade fifth in quality, usually equivalent to condition; (b) sometimes, a grade first in quality, meaning excellent

5. in music, (a) the third tone or note in the scale of C major, or the fifth in the scale of A minor; (b) a key, string, etc. producing this tone; (c) the scale having E as the keynote.

6. in physics, the symbol for, (a) the modulus of elasticity; (b) electromotive force.

E, a. shaped like E.

ē-, a prefix used instead of ex- before many con-

sonants, meaning out, out of, from, without, as

each, a. [ME. eche, ech, zic, elc; AS. zic; a, always, and gelic, like; G. jeglich, each.] every one of two or more considered or treated distinctly from the rest; as, each person was called upon to speak.

each, pron. every one of two or more consid- ea'ger, n. same as corre.

ered individually; each one; as, each did his

ered individually; each one; as, each did his share; each of them heard the remark.
each other; each the other; as, they despise each other, that is, each despises the other.
each where (-hwar), adv. everywhere. [Obs.] ead'sh, n. eddish. [Obs.]
ea'ger, a. [ME. eger, egre; OFr. egre, aigre; L. acer, acris, sharp, keen.]
1. keenly desiring; wanting very much; impatient or anxious; ardent; as, the soldiers were eager to engage the enemy.
2. sharp; sour; acid. [Obs.]
3. sharp; keen; biting; severe. [Archaic.]
4. brittle; inflexible; not ductile. [Obs.]
Syn.—earnest, fervent, zealous, enthusias-

Syn.—earnest, fervent, zealous, enthusias-c, vehement, intense, fervid. tic.

## EXHIBIT 25

### **EXHIBIT 25** REDACTED IN ITS ENTIRETY

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### EXHIBIT 26

Case 1:04-cv-01278-KAJ

Document 227-17 Filed 10/26/2005 Technical Service Request

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CRYOVAC

W. R. Grace & Co. Cryovac Division

PERMANENT

Date

Dept. No. Proj. Controller Appr.

Originator GAUTAM P. SHAH

Proj. No.

DETERMINE THE PROPERTIES OF SEVEN LAYER OXYGEN BARRIER SHRINK FILMS Subject

Man Hours: 52

Justification For Request and Sample Background:

The properties of seven layer oxygen barrier shrink films with nylon and EVOH will help determine the application for the film.

#### DISTRIBUTION

- P. R. Boice
- S. L. Fuller
- V. W. Herran
- S. Kay
- M. B. Quatt
- J. H. Schoenberg
- G. P. Shah
- F. D. Stringer
- J. J. Walters
- N. D. Bornstein
- K. Cannon
- B. C. Childress

Research File

Technical File (2)

Ann Wood

RESTRICTED

Case 1:04-cv-01278-KAJ Document 227-17 Filed 10	0/26/2005	Page 15 of 27
Originator GAUTAM P. SHAH		No. 1-6777
Subject DETERMINE THE PROPERTIES OF SEVEN LAYER (	OXYGEN BA	RRIER SHRINK FILMS.
Sample Identification:  1570: LLDPE-EVA/ADHESIVE/NYLON/EVAL/NYLON/ADHESIVE/LL CA6 / F CA6 / CA6  1572: EPC/ADHESIVE/NYLON/EVAL/NYLON/ADHESIVE/EPC CA6 / CA6	VA   S   S   R   F	or A.S. Use Only cheduled 4/2/// Constant oute To the comments of the comments
	S	Sample Received with TSR Yes No Sample Disposition Destroy Return to Me
Services Requested:  X Tensile & Elongation	_X_ Ha	
X Modulus at		otal Transmission
X Tear Propagation	<u> </u>	
X Free Shrink at 200°,220°,240°,260°,280°,300° F	<u>X</u> U	ensity at 25 t
X Shrink Tension at 200°,220°,240°,260°,280°,300°	Y 0	wygon Transmission
X Ball Burst at		

Other Tests and/or Special Instructions:

Oxygen transmission at 0% to 100% RH @ room temperature Clarity COF IN/IN and OUT/OUT Layer Gauge (2007) Interply bond strength (between all layers)



COMMENTS: TSR 1-6777

By: G. P. Shah

5 February 1986

Both FDX-1570 and FDX-1572 have the nominal thickness of 1 mil but the actual thickness of FDX-1570 is much higher at 1.29 mil. The Nylon CA6 co-polymer layers of the films are significantly out of balance with Nylon missing or very thin at the few places in the FDX-1572 film.

There is no significant difference in the tensile and elongation properties of the film. Both films have good impact resistance. As expected the FDX-1572 being based on polypropylene resin is stiffer than FDX-1570 film. The FDX-1570 has an excellent resistance to tear propagation compared to the FDX-1572 film. There is no significant difference in the water vapor transmission rates for both the films and the transmission rate for both the films is not much different than other non-barrier shrink films. FDX-1570 shows much higher shrinks at all temperatures. There is no difference in the shrink tensions of the films.

As expected the FDX-1570 has higher density than FDX-1570. For the unexplained reasons FDX-1570 film has poor film to film slip. Previously, the films made with similar skins and similar additive package exhibited much better film to film slip. Also FDX-1570 has much better optical properties than FDX-1572 even though in past polypropylene skins have provided better optics.

FDX-1570 shows very good interply bond strength compared to the FDX-1572. In case of FDX-1570, the bond between the layers is stronger than the strength of the material. The poor bond strength of FDX-1572 may have been due to the poor adhesive property of Modic P310H in bonding polypropylene to Nylon.

TSR Comments: 1-6777

The oxygen transmission data show the difference in barrier properties of EVAL-F and EVAL-K. The EVAL-F which gives superior barrier to oxygen transmission when dry but poor barrier when wet is used in FDX-1570. The EVAL-K which gives somewhat lower barrier to oxygen transmission when dry but gives better barrier than EVAL-F when wet is used in the FDX-1572 film.

In conclusion, the FDX-1570 appears to be a better seven layer oxygen barrier film due to its superior film properties.

GPS/bg

MICROSCOPY LABORATORY REPORT

TSR 1-6777 -

Written by: Kenneth Cannon  $\chi^{jc}$ 

Approved by: Blaine Childress

### SEVEN LAYER OXYGEN BARRIER

#### SHRINK FILMS

Two samples of barrier shrink film was submitted to this laboratory for optical thickness gauging. The samples were first cross-sectioned, then gauged using the Unitron Metallograph @ 400X. The results are recorded on the data sheet included with this report.

Research Notebook Page 535D

Man Hours: 6

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KC/mlf 8/28/85

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Case 1:04-cv-01278-KAJ Document 227-17 Filed 10/26/2005

PROBLEM NO 75R 1-6777 DATE 8-19 19 85



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APLE	LAYER	51TE	517£	3)7£	SITE H	517 <u>E</u> 3	SITE	3172	517£	SITE	SITE 10	Aug	STA. PEY,	برکزی دیر تهمی
1570	LLDPE	.94	.36	,31	, 35	,42	,36	.41	,41	145	,39	0.39	.05	194
	adhesive	.13	.16	,11	.18	سحار	.16	,18	.18	,18	, 14	0.16	.02	102
	nulan	,09	.09	,10	,08	.//	,09	.10	.12	,09	.11	0.10	.01	101
	EVAL	,14	.13	,13	,15	.13	.13	.18	,17	12	,12	0.14	٠ 0 ن ت	.01
	nylon	,03.	.02	.03	.05	64	.04	.05	105	04	,05	0.04	.01	,01
	adhesive	15	.12	.09	.10	.14	112	.15	112	112	,13	O.13	,02	رُون و
	LLOPE	18	.22	,24	135	1	.39	,56	143	.34	29			23
	Total	1.06	1.10	0.99	1.26	1.72	1.29	1.63	1.61	1.34	123	1.29	1,200	.15
		7	.36	,42	,37	. 34	,30	, 35	.32	,31	,39	0.35	.04	.03
1572	É PC	.35	.06		.09	.07	1	,10		.09		12.09	1	.01
	nylon	.06	.06			- A	.05	,04		-	i .	0.06	1	
	EVAL	,16	./3	,15	,18	7	,11	. j#		٠15		0.14	4	.01
	nylon	.01	,62	.01	0	0	,02		<del>                                     </del>	.02		0.01	.01	.01
	adhesive	.10	,06	,10	,10	.06	.08	.08	108	.10	.12	0.09	.02	.01
	EPC	,38	.30	.35	127					133	132	0.31	1	نحتار
	Total	1-16	0.99	1-19	1.10	0.92	0.93	1.03	1.06	1.04	1.13	1.06	.09	.07
													<u> </u>	<del> </del>
	-											<del>                                     </del>	<u> </u>	
		<u> </u>												
***************************************														
														<b></b>

- j-

TENSILE AND	ELONGATION AT	BREAK AND	73	DEG	F.	VERSE	
SAMPI.E	: TENSILE : PSI	ELONG.	GAUGE MILS	:	TENSILE E	LONG.	GAUGE MTLS
FDX 1570							
STD.DEV.	: : 106.3X100 : 4.1X100 : 6.5X100	5.	0.08	:	4.5X100	77. 8. 13.	0.99 0.03 0.06
FDX 1572							
STD.DEV.	: 124.0X100 : 9.1X100 : 14.5X100	7.	0.03	;	4.3X100	3,	1.11 0.01 0.02
MODULUS AT	73 DEG.F. LONG	ITUDINAL			TRANS	VERSE	
SAMPLE	: FZI	GAUGE,	HILS	:	PSI	GAUGE	, MILS
FDX 1570							
STD DEV.	: 100.7X100 : 7.3X100 : 11.6X100	0	0.07	:	107.1X1000 2.5X1000 4.0X1000		1.06 0.03 0.05
FDX 1572							
STD.DEV.	: 146.1X100 : 6.9X100 : 10.9X100	•⊙	0.03	:	140.2X1000 3.3X1000 5.3X1000		1.16 0.03 0.05
TEAK PROPAG	Z7 TA MOITA; DMO.J	DEG.F. ITUDINAL			TRANS	SVERSE	
SAMPLE	: GRAMS	GAUGE,	MILZ	:	GRAMS	GAUGE,	MILS
FDX 1570		and the safe decreases and and pure any as			ever were very mile data land task the day and men and task day are		
AVERAGE STD.DEV. * 95% C.L.		(	1.37 9.06 9.09		79.17		1.42 0.05 0.08

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 2-

TEAR PROPA	GATION AT 73 LON		TRAN:	SVERSE			
SAMPLE	: GRAMS	GAUGE,	MILS	:	GRAMS	GAUGE	MILS
FDX 1572	grad gram care past grace take take bette spen apar draw spen floor and			;			
AVERAGE STD.DEV. * 95% C.L.	: 5.78 : 0.32 : 0.51		1.14 0.04 0.06	:	6.60 0.61 0.96		1.18 0.06 0.10
	IMPACT AT T DIAM. SPHERE H						
SAMPLE	CM-KG						
FDX 1570							
STD.DEV. * 95% C.L.	25.0 2.2 3.4	1.38 0.06 0.10	aa aang anal Main 1880 Unio Sci	و خود مناسب مناسب مناسب در مناسب در			gia, maj www wat men men neg
FOX 1572		•			•		
AVERAGE STD.DEV. * 95% C.L.	14.0 0.8 1.3	1.13 0.03 0.04		, , , , , , , , , , , , , , , , , , , ,			
WATER VAPO	: DR TRANSMISSIO	N AT 100 ]	DEG.F.				
SAMPLE (	GRAMS/(24HRS,i	00SQ.IN.)	AT 1007	(RH	GAUGE, MI	ILS	, , , , , , , , , , , , , , , , ,
FDX 1570							
	0.61 0.94 0.78				1.40 1.04 1.19		, time since these them to return or
FDX 1572				<del></del>			
	0.75 0.83 0.75		,		1.24 1.04 1.12		

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 3-

FREE SHRINK	ΑT		DEG.F. LONGITUDINAL			TRANSVERSE
SAMPLE	F	ERCEN	T .		PERCENT	
FDX 1570						
AVERAGE STD.DEV. * 95% C.I	:	2.		:	25. 1. 2.	
FDX 1572						
AVERAGE STD.DEV. * 95% C.L.	:	20. 1. 2.	·	:	24. 2. 3.	
FREE SHRINK	ΑT	220	DEG.F. LONGITUDINAL			TRANSVERSE
SAMPLE	F	ERCE	₹T		PERCENT	
F0X 1570						
AVERAGE STD.DEV. * 95% C.L.	:	2.	•	;	39. 1. 1.	
FDX 1572				ting ages much much such think sold find some	. 2-0 tag - 40-5 tag and and mak and and	
AVERAGE STD.DEV. * 95% C.L.	:	3.		:	34. 3. 4.	
FREE SHRINK	AT	240	DEG.F. LONGITUDINAL		- The case took and the law day tool	TRANSVERSE
SAMPLE	F	ERCE	NT.		PERCENT	
FDX 1570	:	, mg		:		
AVERAGE STD.DEV. * 95% C.L.	: : :	67. 2. 3.		: :	60. 2. 4.	

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 4-

FREF SHRINK	AT 240 DEG.F. LONGITUDINAL	TRANSVERSE
SAMPLE	PERCENT	PERCENT
FDX 1572		;
AVERAGE STD.DEV. * 95% C.L.	: 1.	: 46. : 1. : 2.
FREE SHRINK	AT 260 DEG.F. LONGITUDINAL	TRANSVERSE
SAMPLE	PERCENT	PERCENT
FDX 1570		:
AVERAGE STD.DEV. * 95% C.L.	72. 1. 2.	: 67. : 3. : 5.
FDX 1572		•
AVERAGE STD.DEV. * 95% C.L.	: 1 <u>.</u>	: 58. : i. : 2.
FREE SHRINK	AT 280 DEG.F. LONGITUDINAL	TRANSVERSE
SAMPLE	PERCENT	PERCENT
FDX 1570		,
AVERAGE STD.DEV. * 95% C.L.	: : 73. : 1. : 2.	. 68. : 1. : 1.
FDX 1572		:
AVERAGE STD.DEV. * 95% C.L.		: 59. : 1. : 2.

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 5-

FREE SHRINK	F. GITUDINAL			-	[RANSVERSE			
SAMPLE	o parti mag mays agai pank daga afan daga tang daga bang	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	P1	ERCENT	red and safe which had had been been any over a			
FDX 1570				:			·	
AVERAGE STD.DEV. * 95% C.L.	: : :	72. i. i.		:		68. · 1. 2.		40. wa stu mii die het
FDX 1572		and the state area man many steps and and an						
AVERAGE STD.DEV. * 95% C.L.	:	2.		:		58. 4. 6.		
SHRINK PROP							TRANSVERSE	CAUCE
SAMPLE	:	FORCE LBS	TENSION PSI	GAUGE :		FURCE	TENSION FSI	MILZ 
FDX 1570								
AVERAGE STD.DEV. * 95% C.L.	: : :	0.343 0.026 0.042	338. 18. 28.	1.01 : 0.03 : 0.04 :	:	0.603 0.009 0.014	446. 13. 21.	1.35 0.03 0.04
FDX 1572				,	:			
AVERAGE STD.DEV. * 95% C.L.	: : :	0.359 0.063 0.101	325. 58. 92.	1.10 0.01 0.02	: : :	0.525 0.014 0.023	457. 22. 34.	1.15 0.03 0.05
SHRINK PROF		IES AT 2	<del>-</del>	·			TRANSVERSE	
SAMPLE	: :	FORCE LFS	HOIZNAT FSI	GAUGE	:	FORCE	TENSION PSI	GAUGE MILS
FDX 1570					:			
AVERAGE STD.DEV. * 95% C.L.		0.375 0.034 0.054	332. 36. 57.	0.05	:	0.650 0.035 0.055	5,	1.48 0.08 0.12

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 6-

TSR 1-6777 DETERMINE THE PROPERTIES OF SEVEN LAYER OXYGEN BARRIER SHRINK FILMS

SHRINK PROP		1.0	NGITUDINAL			TRANSVERSE	
SAMPL.E	:	FORCE LBS	TENSION PSI	GAUGE : MILS :	FORCE LBS	TENSION PSI	GAUGE MILS
FDX 1572						THE THE SHE ARE SHE WE THE THE REST SHE SHE THE	
, 4,	:			:	0 504	4.4.4	4 00
AVERAGE	:	0.379 0.031	339. 59.	1.13 : 0.11 :	0.009	12.	0.02
* 95% C.I	:	0.049	94.	0.i8 :	0.014	464. 12. 19.	0.03
SHRINK PROF	'ERTI	2 AA 23: Lo	240 DEG.F. NGITUDINAL			TRANSVERSE	
	:	FORCE	TENSION	GAUGE :	FORCE	TRANSVERSE TENSION PSI	GAUGE
SAMPLE	:	LBS	FSI	MILS :			1,17 (**)
FDX 1570				:			
AVERAGE	:	0.590	425.	1.39 :	0.674	453. 14.	1.49
STD.DEV.	:	0.026	24. 39.	0.03 : 0.04 :	0.021	14. 22.	0.03 0.05
* 95% C.L.	· 			~~~~~~~~~			as some surch first trial briss strik
FDX 1572	:			:			
AVERAGE	:			0.96 :	0.530	490. 16.	1.08 0.03
STD.DEV. * 95% C.L.	:	0.013	14. 22.	0.03:			0.05
SHRINK PRO	PERT	TA ZEL	260 DEG.F.			TRANSVERSE TENSION PSI	
,	:	FORCE	TENSION	GAUGE :	FORCE	TENSION	GAUGE
SAMPLE	;	LBS	PSI	MILS :			
FDX 1570			<b>-</b>				
AVERAGE	:	0.605	424.	i.43 :	0.490	451.	1.09
STD.DEV.	:	0.033	10.	0.05 :	0.012 0.019	20.	0.05 0.10
* 95% C.L.	:	0.053 	16.				
FDX 1572				:			
AVERAGE	:	0.439	434.	1.01 :	0.514	479.	i.07
STD.DEV.		0.015	22. 35.	0.03 : 0.05 :	0.032 0.051	26. 42.	0.02 0.03
* 95% C.L.		0.024	13 of 14	*****			

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 7-

TSR 1-6777 DETERMINE THE PROPERTIES OF SEVEN LAYER DXYGEN BARRIER SHRINK FILMS

SHRINK PROPE	RTIE	S AT 28 LON	80 DEG.F. KGITUDINAL			TRANSVERSE	
SAMPLE	:	FORCE LBS	PSI PSI	GAUGE : MILS :			GAUGE MILS
FDX 1570				•			
AVERAGE STD.DEV. # 95% C.L.	:	0.021	396. 16. 25.	1.06 : 0.01 : 0.02 :	0.019	2í.	1.00 0.01 0.02
FDX 1572							
AVERAGE STD.DEV. * 95% C.L.	:	0.459 0.017 0.027	437. 29. 46.	1.06 : 0.10 : 0.16 :	0.024		1.09 0.04 0.06
SHRINK PROP	ERTI	ES AT 3	00 DEG.F. NGITUDINAL			TRANSVERSE	
SAMPLE		FORCE LBS		GAUGE : MILS :		TENSION PSI	GAUGE MILS
·FDX 1570.							
AVERAGE STD.DEV. * 95% C.L.	:	0.017	341. 17. 28.	0,03:	0.460 0.061 0.097		1.16 0.23 0.37
FDX 1572							
AVERAGE STD.DEV. * 95% C.L.		0.490 0.052 0.082	415. 45. 71.		0.018	16.	1.09 0.00 0.00
DENSITY AT	23 I	DEG. C.				,	
SAMPLE		GRAMS/0	cc				ngay ayan anna dates tales philis (444)
FDX 1570							
		0.9649 0.9654					igana agaw adah adah spale shaha film

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4

- 8-

TSR 1-6777 DETERMINE THE PROPERTIES OF SEVEN LAYER OXYGEN BARRIER SHRINK FILMS

DENSITY AT 23 DEG. C.

SAMPLE	GRAMS/CC	) - 				
FDX 1572						
	0.9431 0.9434				ad 1000 also also also also 1000 also also	
COEFFICIENT OF	FRICTION	(ASTM SLED)	AT 73	3 DEG.F.		
SAMPLE	IN/IN STATIC	KINETIC	.UGVTNO			
FDX 1570						
AVERAGE STD.DEV. * 95% C.L.	3,338 ( 0,283 0,45,0		3.050 0.180 0.286	BLOCKED		allo and allo the line has the all the first two two
FDX 1572						
AVERAGE STD.DEV. * 95% C.L.	0.879 0.212 0.337	0.053	0.460 0.058 0.092	0.013		, and the day has been the been been the been the been been been been been been been be
OPTICAL PROPER		TOTAL		A 50 T 70 V	C1 0.00	CAUCE.
SAMPLE	HAZE	TRANSMISSIO	N UL	ARIII %	45 DEG.	MILS
FDX 1570						
AVERAGE STD.DEV. * 95% C.L.				66.7 10.6 16.8	91. 2. 4.	1.20 - 0.02 0.03
FDX 1572						
AVERAGE STD.DEV. * 95% C.L.	2.6 0.1 0.2				85. 3. 4.	

<sup>\* 95%</sup> CONFIDENCE LIMITS FOR THE AVERAGE, N=4